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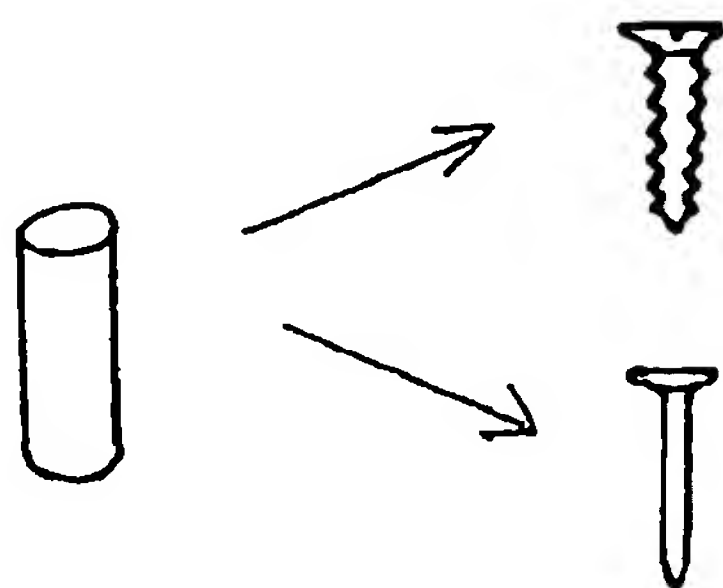
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(54) Title: MULTIFUNCTIONAL IMPLANT DEVICE



(57) Abstract: Bone fixation or augmentation in a mammalian body to enhance the me-
chanical strength of a fracture is provided by reinforcement fixing bone ends together
using the implant device. A resorbable device can be rendered anti-osteolytic by incorpo-
rating materials such as bisphosphonates. It can also be rendered osteoconductive by the
incorporation of an osteoconductive material such as bioactive glass or TCP. The implant
device has a matrix as one phase, where the matrix is made of a bioresorbable polymer.
One phase of the implant is made from self-reinforcing elements and the matrix contains
an antiosteolytic agent component. The implant contains further osteoconductive and/or
osteoconductive material.